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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/559,529	04/13/2006	Mitsuru Tanikawa	Q91465	2707
23373 SUGHRUE MI	7590 10/14/200 ON, PLLC	EXAMINER		
2100 PENNSYLVANIA AVENUE, N.W.			MCCULLEY, MEGAN CASSANDRA	
	SUITE 800 WASHINGTON, DC 20037			PAPER NUMBER
			1796	
			MAIL DATE	DELIVERY MODE
			10/14/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/559,529	TANIKAWA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Megan McCulley	1796			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on <u>30 Ju</u>	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 19-22 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 19-22 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examine	vn from consideration.				
10) ☐ The drawing(s) filed on <u>02 December 2005</u> is/an Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti 11) ☐ The oath or declaration is objected to by the Ex	re: a)⊠ accepted or b)⊡ object drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 6/18/2007; 4/19/2007; 5/9/2006; 4/13/200	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6; 6) Other:	ate			



Application No.

DETAILED ACTION

Election/Restrictions

Claims 1-18 and 23-36 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on June 30, 2008.

Applicant's election without traverse of claims 19-22 in the reply filed on June 30, 2008 is acknowledged.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 19-22 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is unclear in claim 19 if the "cured product having a glass transition temperature of 120 °C or higher" mentioned in line 6 is an additional component that the composition contains, or if when the claimed composition is cured, the resulting product has this property. For the purpose of further examination, the later interpretation is taken, as evidenced by paragraph 106 of the pre-grant publication of this application.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 19-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakayama et al. (JP 07-224144) in view of Yagi et al. (U.S. Pat. 6,566,422). The English language machine translation of the Japanese document is used for the citations below.

Regarding claim 19: Nakayama et al. teaches a composition comprising an resin (abstract) which is heat curable (page 6 para. 11), a polymerization initiator (page 6 para. 12 line 24), and a resin particle (abstract) with a core having rubber elasticity

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(page 4 para. 9) and a glass transition temperature of -20 °C or less (abstract) and a shell comprising a polymer with a glass transition temperature of 50-150 °C (abstract).

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Nakayama et al. does not teach that the glass transition temperature of the cured product has a glass transition temperature of 120 °C or higher measured by dynamic mechanical analysis under conditions of temperature rising rate of 5 °C/min and of a frequency of 10 Hz. However, Yagi et al. teaches a similar composition with a cured glass transition temperature of 120-200 °C (abstract). Nakayama et al. and Yagi et al. are analogous art because they are both concerned with the same field of endeavor, namely bonding compositions comprising coated resin particles. At the time of the invention a person having ordinary skill in the art would have found it obvious to combine the cured glass transition temperature of Yagi et al. with the composition of Nakayama et al. and would have been motivated to do so for such desirable properties as superior fastness to environmental conditions, as evidenced by Yagi et al. (col. 7 lines 55-63).

It is the Office's position that the technique used for measuring the glass transition temperature of the cured product does not clearly define the instant composition over that disclosed in the prior art since it does not change the structure or function of the product. If it is applicants' position that this would not be the case: (1) evidence would need to be presented to support applicants' position; and (2) it would be the Office's position that the application contains inadequate disclosure that there is no teaching as to how to obtain a composition with these properties.

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Regarding claim 20: Nakayama et al. teaches the particles have a size of 1-10 micrometers (page 4 para. 8), which overlaps the claimed range.

Regarding claim 21: Nakayama et al. teaches the core polymer can be an acrylate or a methacrylate (page 4 para. 9).

Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nakayama et al. (JP 07-224144) in view of Yagi et al. (U.S. Pat. 6,566,422) as applied to claim 19 above and in further view of Kishi et al. (US 2002/0009581). The English language machine translation of the Japanese document is used for the citations below.

Regarding claim 22: Nakayama et al. teaches the basic claimed composition as set forth above. Not disclosed is the adhesive strength of 150 N/cm2. However, Kishi et al. teaches a similar composition having an adhesive strength between 65 and 140 MPa, which is 6500-14000 N/cm2. Nakayama et al. and Kishi et al. are analogous art because they are both concerned with the same field of endeavor, namely bonding compositions comprising rubber particles. At the time of the invention a person having ordinary skill in the art would have found it obvious to combine the adhesive strength of Kishi et al. with the composition of Nakayama et al. and would have been motivated to do so for such desirable properties as a product being able to hold heavier loads.

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Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Megan McCulley whose telephone number is (571)270-3292. The examiner can normally be reached on Monday - Friday 7:30-5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Eashoo can be reached on (571) 272-1197. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Mark Eashoo, Ph.D./
Supervisory Patent Examiner, Art Unit 1796
13-Oct-08

/M. M./ Examiner, Art Unit 1796